A.O.SMITH

WATER PRODUCTS COMPANY

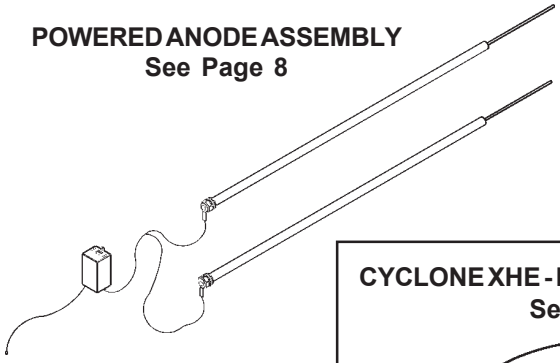
PSD-3-443/c

GAS

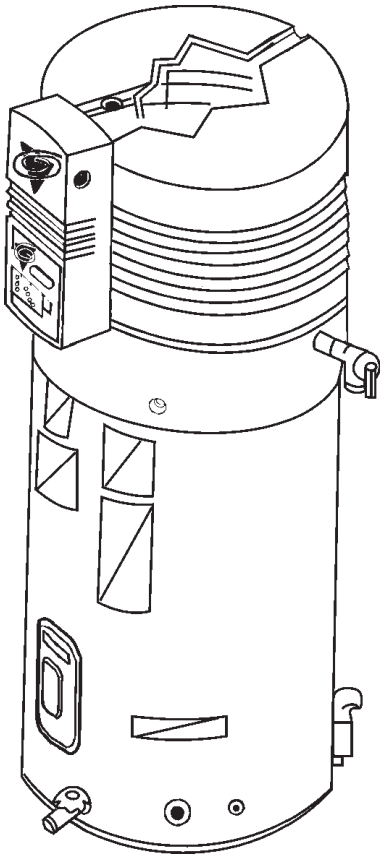
COMMERCIAL WATER HEATER PARTS LIST

MODEL BTH-300A
SERIES 970/971
MODEL BTH-400A
SERIES 970

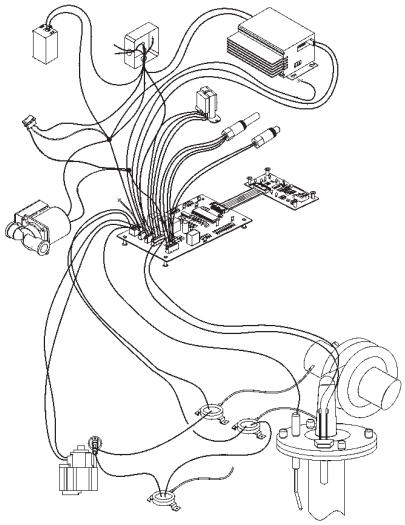
POWERED ANODE ASSEMBLY
See Page 8



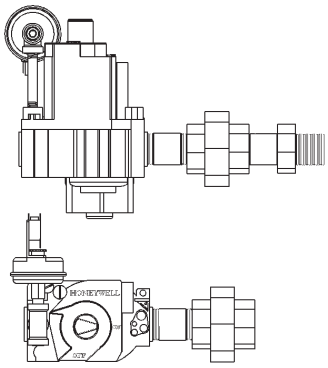
CYCLONE XHE - MODEL BTH-300A/400A
See Page 2



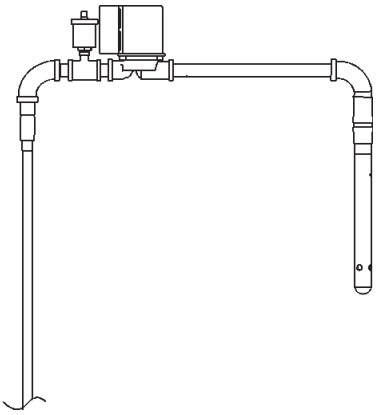
OPERATING CONTROL WIRING
See Page 4



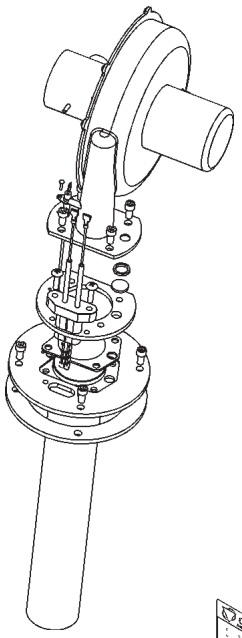
GAS VALVE
See Page 5



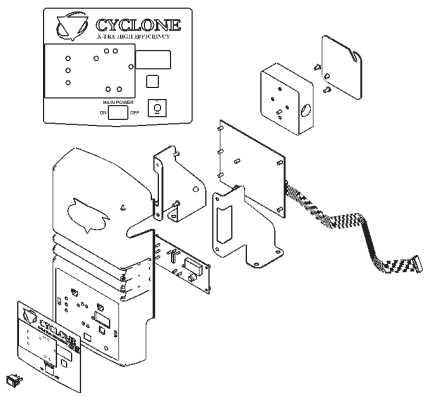
RECIRCULATING SYSTEM
See Page 5



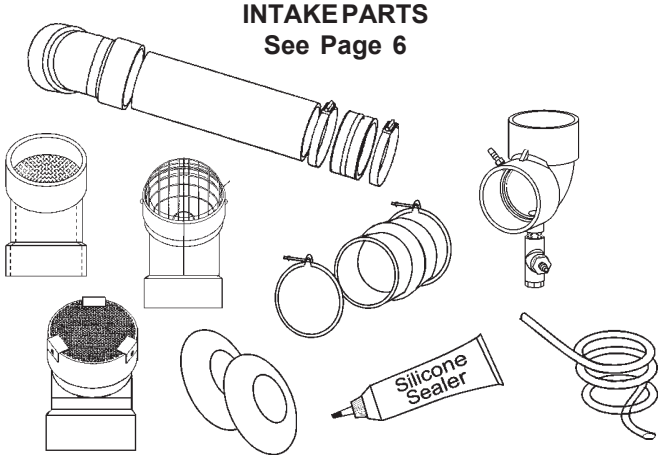
BLOWER/BURNER ASSEMBLY
See Page 7



CONTROL PANEL
See Page 3



EXHAUST ELBOW, VENT KIT & BLOWER INTAKE PARTS
See Page 6



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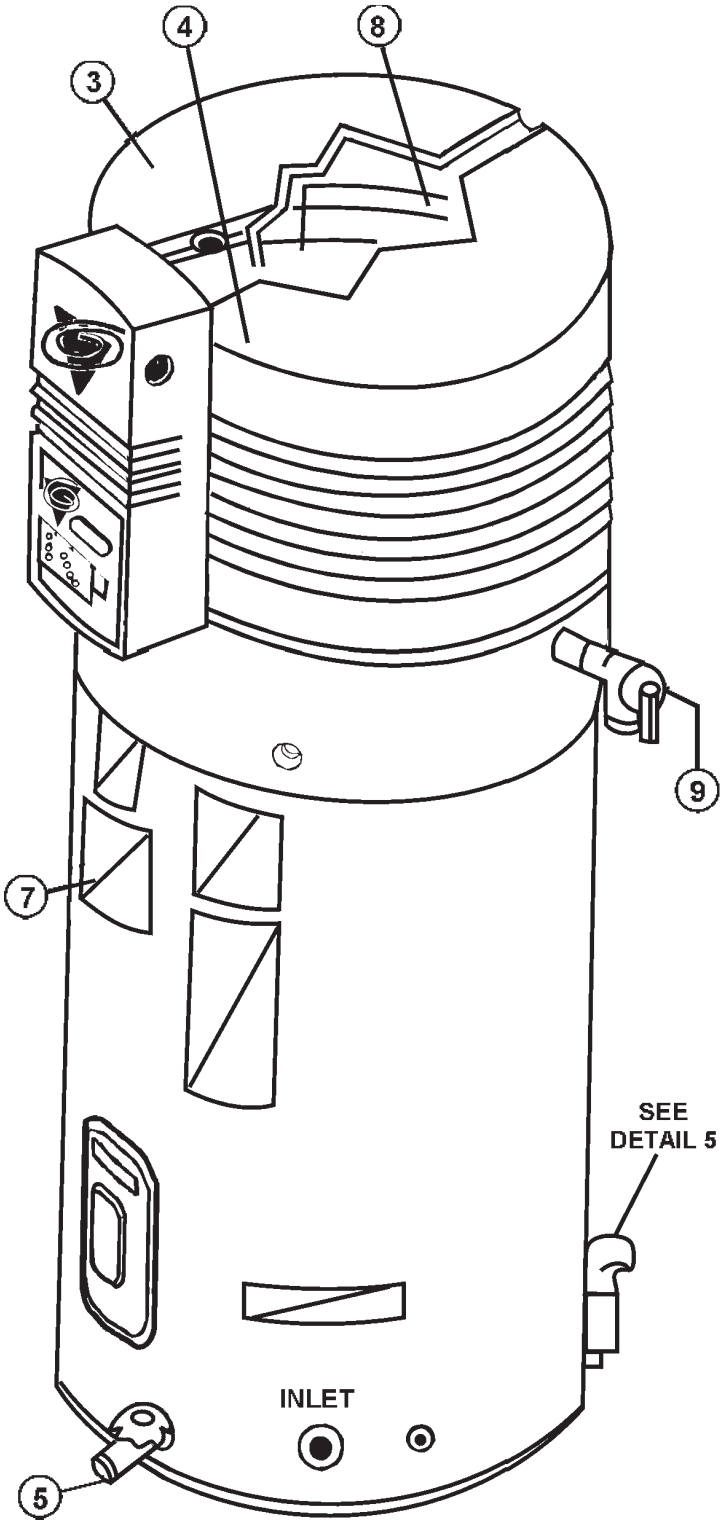
CYCLONE XHE BTH 300A/400A - PARTS LIST

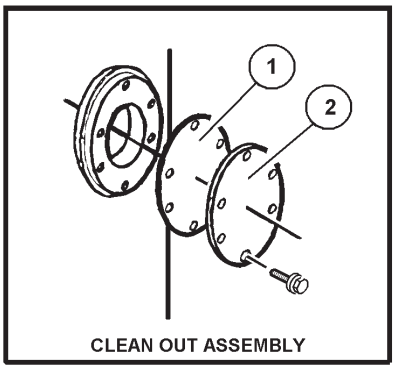


Item	Description	BTH 300A 970/971	BTH 400A 970/971
1	Cleanout Gasket	99038	99038
2	Cover, Cleanout	99037	99037
3	Cover, Left	194748	194748
4	Cover, Right	194749	194749
5	Drain Valve	26273-4	26273-4
7	Labels:		
	800 Help Line	190600	190600
	C.E.C.	42985	42985
	Cleanout	78754	78754
	ECO	192282-1	192282-1
	Electronic Ignition	77860	77860
	Flammable Vapors	193302	193302
	Lighting & Operating	194548	194548
	Relief Valve	191068	191068
	UL	192870	192870
	Ultra Coat	193860	193860
	Warning	193912	193912
	Water Inlet	94519	94519
	Water Outlet	94518	94518
	Wiring Diagram	194772	194772
8	Panel, Back	194750	194750
9	Temperature and Pressure Relief Valve	99383-3	99383-3

NOTE: **Underlined parts are recommended stock items for emergency replacement. Consider gas used in your area only.**

***Not illustrated.**

Standard hardware items may be purchased locally.



CLEAN OUT ASSEMBLY

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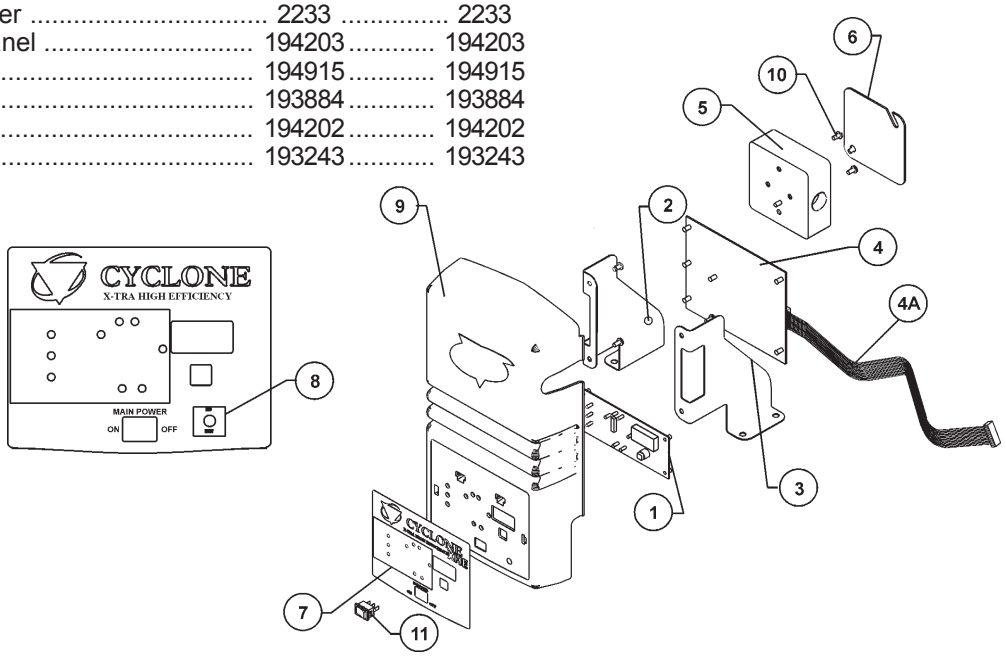
CYCLONE XHE BTH 300A/400A - CONTROL PANEL

Item	Description	BTH300A 970/971	BTH400A 970/971
1	Board, Display Panel	194808	194808
2	Bracket, Mounting Left	194123-1	194123-1
3	Bracket, Mounting Right	194123	194123
	Control Board, Cable Assembly (includes 4 & 4A)	194811	195018
4	Control Board	194812	195010
4A	Cable Assembly	194809	194809
5	Junction Box Assembly	194126	194126
6	Junction Box Cover	2233	2233
7	Label, Display Panel	194203	194203
8	Label, Led	194915	194915
9	Panel Front	193884	193884
10	Screw, Plastic	194202	194202
11	Switch,Off/On	193243	193243



CYCLONE XHE BTH 300A/400A - OPERATING CONTROLS & WIRING (See Next Page)

Item	Description	BTH 300A 970/971	BTH 400A 970/971
1	Cable Assembly, Power Switch	194785	194785
2	Blower Prover Air Switch	194706	195013
3	Box, Anode	194857	194857
4	Box, Junction	194126	194126
5	Cable Assembly, Low Voltage	194918	194918
7	Wire Harness	194783	194783
8	Cable, Assembly - Controls	194784	194784
9	Wire Assembly - Air Flow Switch	192802-2	192802-2
10	Wire Assembly - Air Flow Switch	192802-1	192802-1
	Control Board, Cable Assembly (Includes Item 11 & 11A)	194811	195018
11	Control Board	194812	195010
11A	Cable Assembly	194809	194809
12	Display Board	194808	194808
13	Electronic Control	194747	194747
14	Probe, Upper	196597	196597
15	Probe, Lower	196598	196598
16	Switch, Blocked Inlet	194911	195012
17	Switch, Blocked Outlet - NAT	194910	194910
	Switch, Blocked Outlet - LP	195017	195017
18	Pump, Recirculation	194799	194799
19	Switch, On/Off	193243	193243
20	Switch, NAT, Low Gas Pressure	191149-6	191149-6
	Switch, LP ,Low Gas Pressure	191149-4	191149-4
21	Transformer	192608	192608
22	Valve, Natural Gas	194536-5	194536-5
22	Valve, LP Gas	194536-6	194536-6
23	Tubing, 1/4" ID, PVC	193738	193738
24	Cable Assembly, Igniter	194937	194937

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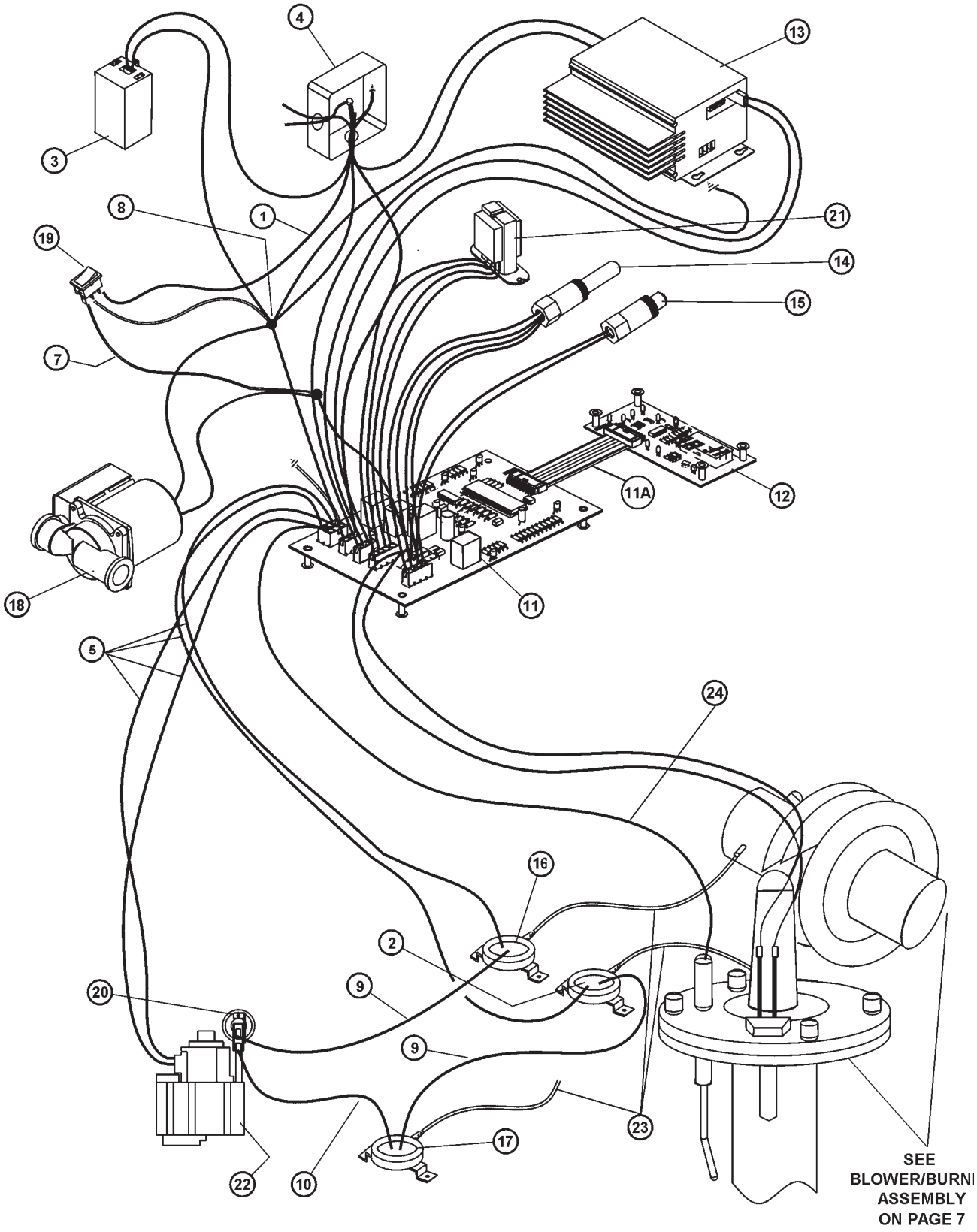
DETAIL 2 - CYCLONE XHE BTH 300A - CONNECTIONS (Continued)



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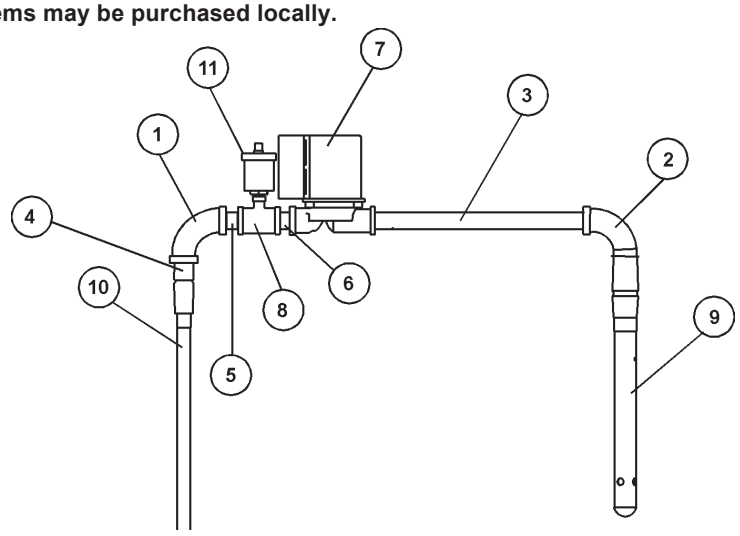
RECIRCULATING SYSTEM

Item	Description	BTH 300A 970/971	BTH 400A 970/971
1	Elbow, 3/4" Female - 3/4" Female	194873	194873
2	Elbow, 3/4" Male - 1" Female	194872	194872
3	Hose, Flexible	194912	194912
4	Nipple, 3/4" - Pipe x 2"	194921-3	194921-3
5	Nipple, 3/4" - Pipe x 4"	194921-2	194921-2
6	Nipple, 3/4" - Pipe x close	194921-1	194921-1
7	Pump, Recirculation	194799	194799
8	Tee, Non-Reducing	194870	194870
9	Tube, Closed End Dip	194924	194924
10	Tube, Inlet	194820	194820
11	Vent, Automatic Air	194830	194830

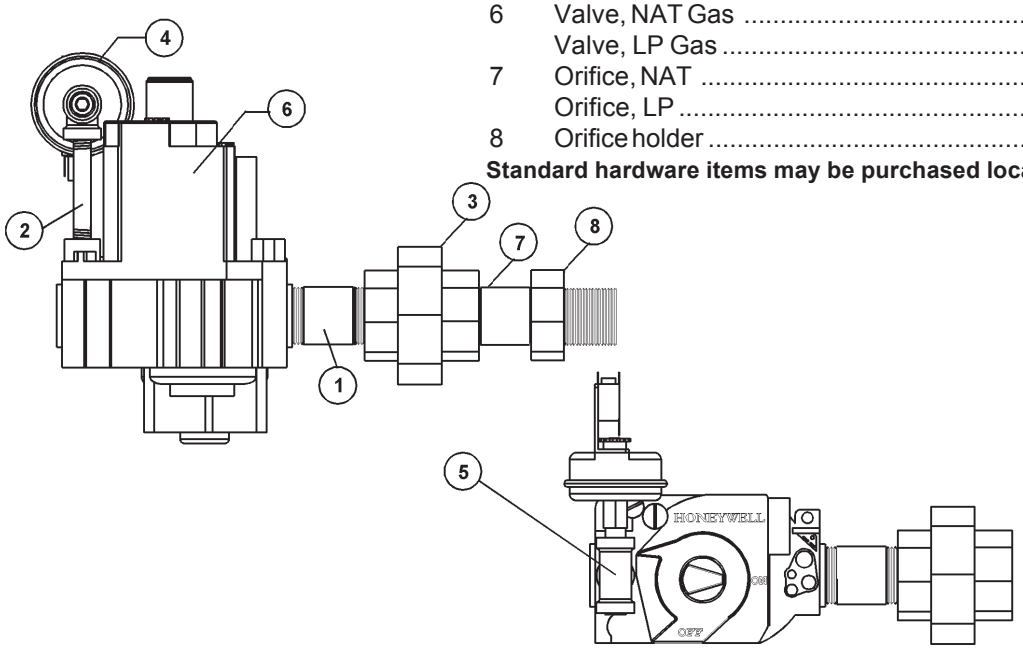
Standard hardware items may be purchased locally.



DETAIL 4 - GAS VALVE

Item	Description	BTH 300A 970/971	BTH 400A 970/971
1	Nipple, 3/4" - Pipe	85040-18	85040-18
2	Nipple, 1/8" - Pipe	192948-2	192948-2
3	Pipe, Union	95515	95515
4	Switch, Low Gas Pressure	191149-6	191149-6
	LP Gas	191149-4	191149-4
5	Tee, Non-Reducing	40119	40119
6	Valve, NAT Gas	194536-5	194536-5
	Valve, LP Gas	194536-6	194536-6
7	Orifice, NAT	192477-7	192477
	Orifice, LP	192477-8	192477-9
8	Orifice holder	192447	192447

Standard hardware items may be purchased locally.



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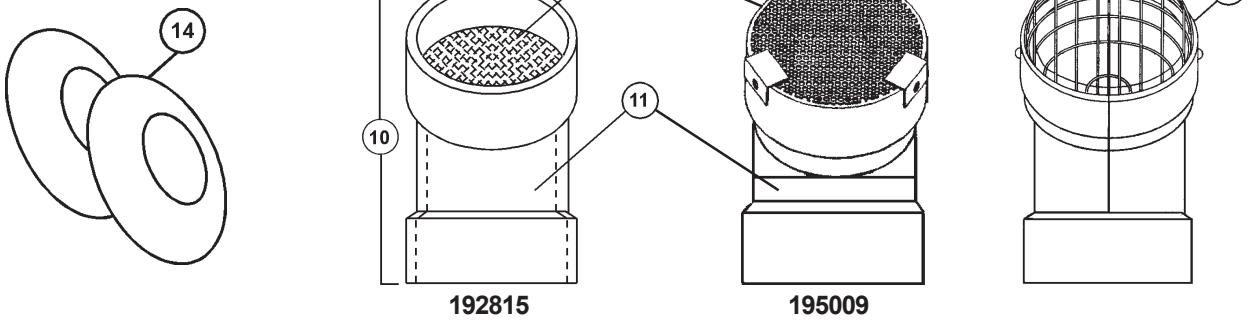
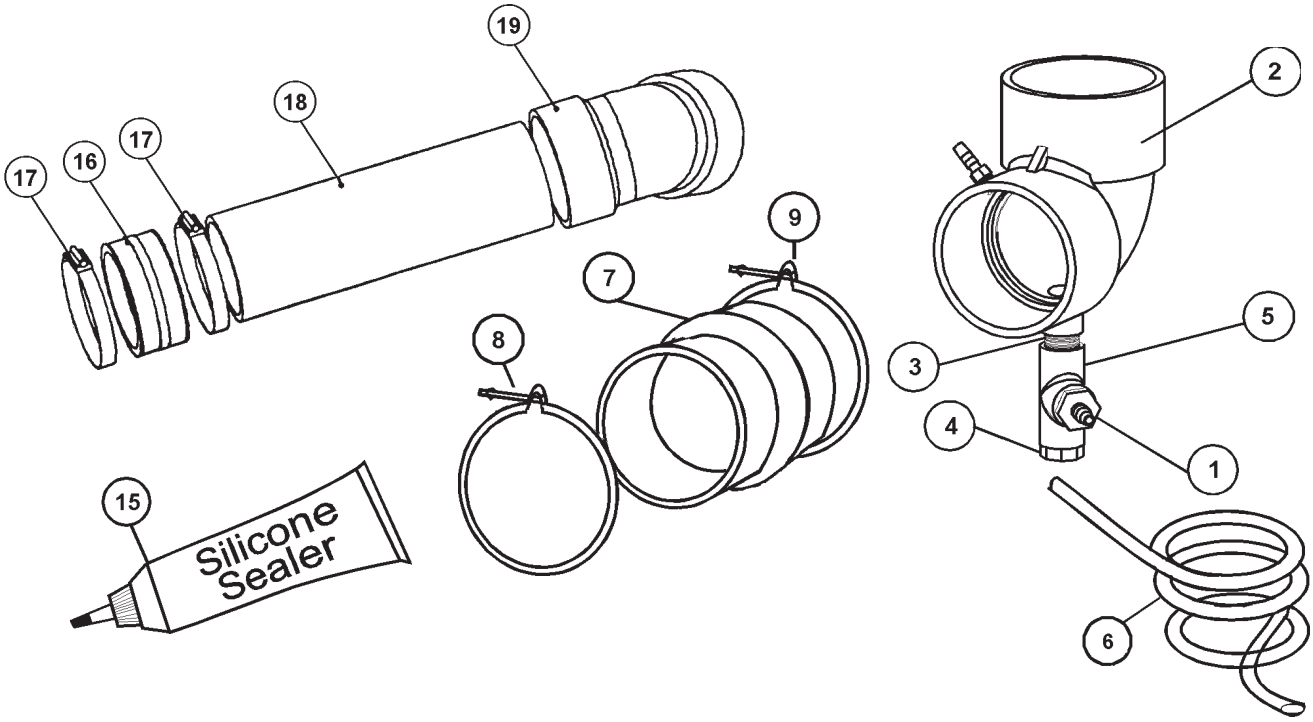
EXHAUST ELBOW, VENT KIT & BLOWER INTAKE PARTS

Item	Description	BTH 300A 970/971	BTH 400A 970/971
	EXHAUST ELBOW AND FITTINGS		
1	Adapter, Hose Fitting	192472	192472
2	Elbow, 90°	194836	194836
3	Nipple, Pipe, Closed	194558	194588
4	Plug, Hex	194560	194560
5	Tee	194559	194559
6	Tubing	191746-72	191746-72
7	Connector, Exhaust	192636	192636
8	Hose Clamp, 3"	192696	192696
9	Hose Clamp, 4.5"	192697	192697
	VENT KIT PARTS		
10	Elbow w/Screen	192815	195009
11	Elbow, 45° x 3.5" dia.	181901	181901
12	Screen	181662	195008
13	Intake Terminal	182167	182167
14	Wall Plates (2 Req'd)	181557	181557
15	Silicone Sealer, 2 oz. tube	181564	181564
	BLOWER INTAKE PARTS		
16	Coupling	182094	182094
17	Hose Clamp	194838	194838
18	Tube, Intake	194923	194923
19	Vent Terminal, Intake	192815	192815

\# Dash number indicates inches.

* Not Illustrated.





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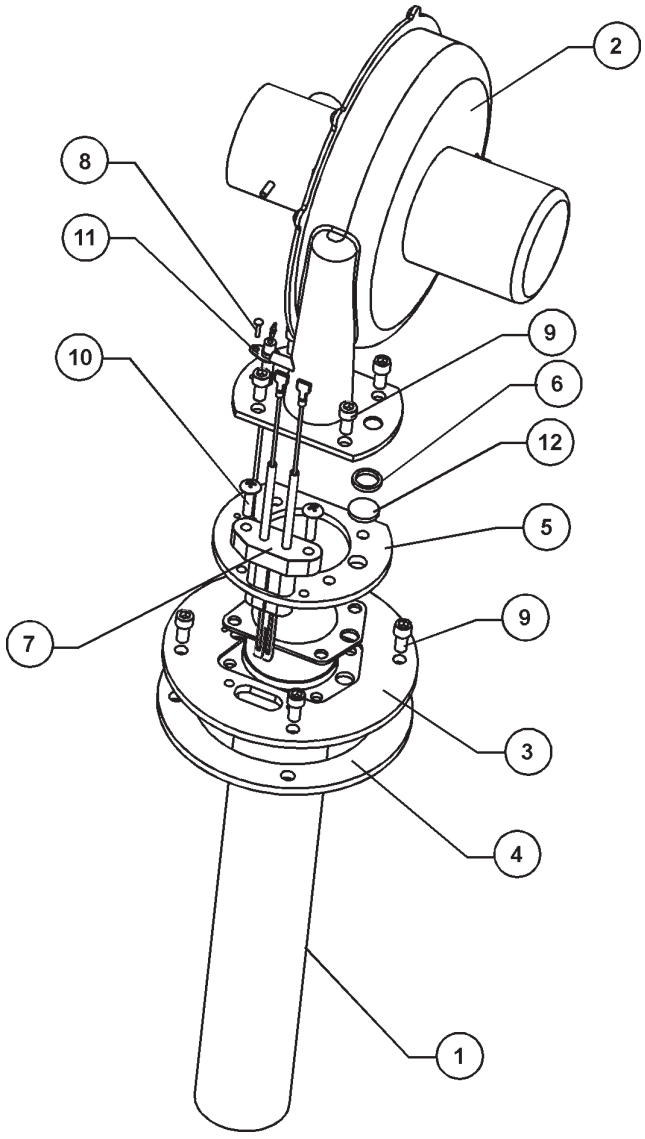
BLOWER/BURNER - ASSEMBLY

Item	Description	BTH 300A 970/971	BTH 400A 970/971
1	Burner	194779	194998
2	Blower/Motor Assembly	194746	194746
3	Flange-Burner	194960	194960
4	Gasket	194817	194817
5	Gasket, Burner	194777	195016
6	Gasket-Viewport	194827	194827
7	Ignitor	192334	192334
8	Screw, #8-18 x 1/2	192698	192698
9	Screw, Socket Head Cap	192515	192515
10	Screw, Truss Hd. Mach 1/4-20 x 2.00	194816	194816
11	Sensor, Flame	194776-1	194776-1
12	Window, Observation	98758-3	98758-3

Standard hardware items may be purchased locally.



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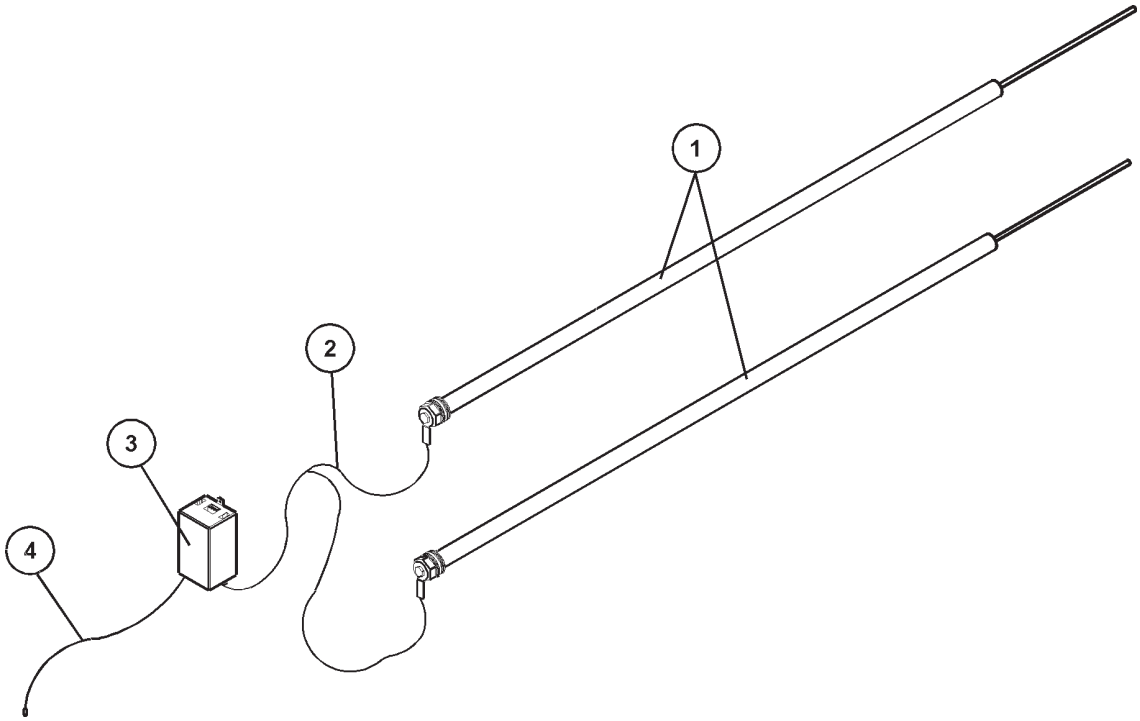
POWERED ANODE ASSEMBLY

Item	Description	BTH 300A 970/971	BTH 400A 970/971
1	Anode	194787	194787
2	Anode Wire, 28"	194925	194925
3	Control Box	194857	194857
4	LED w. Lead Wire	194959	194959



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